

✓ On page 4, line 26, replace "SEQ. ID. NO:2" with --SEQ ID NO:2--.

✓ On page 5, line 5, replace "SEQ. ID. NOS:2, 38-157 and 168-175" with --SEQ ID NOS:2, 37-140, 142 and 144-147--.

✓ On page 5, line 7, replace "SEQ. ID. NOS:2, 38-157 and 168-175" with --SEQ ID NOS:2, 37-140, 142 and 144-147--.

On page 5, lines 9 and 10, replace "SEQ. ID. NOS:2, 38-41. 139-152 and 171-173" with --SEQ ID NOS:2, 37-40, 122, 128-139 and 144-146--.

✓ On page 5, lines 20 and 21, replace "SEQ. ID. NOS:2, 38-157 and 168-175" with --SEQ ID NOS:2, 37-140, 142 and 144-147--.

On page 5, lines 23 and 24, replace "SEQ. ID. NOS:2, 38-41. 139-152 and 171-173" with --SEQ ID NOS:2, 37-40, 122, 128-139 and 144-146--.

✓ On page 5, line 26, replace "SEQ. ID. NOS:42-49, 134-138, 153-157 168-170" with --SEQ ID NOS:41-48, 123-127, 135-138, 140 and 144-146--.

✓ On page 6, line 3, replace "SEQ. ID. NO: 1 and SEQ. ID. NO:3" with --SEQ ID NO:1 and SEQ ID NO:3--.

✓ On page 6, lines 5 and 6, replace "SEQ. ID. NO: 1 and SEQ. ID. NO:3" with --SEQ ID NO:1 and SEQ ID NO:3--.

✓ On page 6, line 14, replace "SEQ. ID. NO: 1 and SEQ. ID. NO:3" with --SEQ ID NO:1 and SEQ ID NO:3--.

✓ On page 6, line 16, replace "SEQ. ID. NO: 1 and SEQ. ID. NO:3" with --SEQ ID NO:1 and SEQ ID NO:3--.

✓ On page 6, line 25, replace "SEQ. ID. NOS:32-37" with --SEQ ID NOS:31-36--.

✓ On page 6, line 27, replace "SEQ. ID. NOS:32-37" with --SEQ ID NOS:31-36--.

✓ On page 7, lines 1 and 2, replace "SEQ. ID. NOS:2, 38-157 and 168-175" with --SEQ ID NOS:2, 37-140, 142 and 144-147--.

✓ On page 7, lines 3 and 4, replace "SEQ. ID. NOS:2, 38-157 and 168-175" with --SEQ ID NOS:2, 37-140, 142 and 144-147--.

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✓ On page 7, lines 6 and 7, replace "SEQ. ID. NOS:2, 38-41, 139-152 and 171-173" with --SEQ ID NOS:2, 37-40, 122, 128-139 and 144-146--.

✓ On page 7, lines 9 and 10, replace "SEQ. ID. NOS:42-49, 134-138, 153-157 168-170" with --SEQ ID NOS:41-48, 123-127, 135-138, 140 and 144-146--.

✓ On page 7, line 19, replace "SEQ. ID. NOS:158-164 and 176-178" with --SEQ ID NOS:47, 83, 88, 138, 139, 141, 142, 145 and 146--.

✓ On page 7, line 25, replace "SEQ. ID. NOS:158-164 and 176-178" with --SEQ ID NOS:47, 83, 88, 138, 139, 141, 142, 145 and 146--.

✓ On page 7, line 32 and page 8, line 1, replace "SEQ. ID. NOS:165-167 and 179" with --SEQ ID NOS:47, 83 and 143--.

✓ On page 8, lines 6 and 7, replace "SEQ. ID. NOS:165-167 and 179" with --SEQ ID NOS:47, 83 and 143--.

✓ On page 8, line 16, replace "SEQ. ID. NOS:4-31 and 124-133" with --SEQ ID NOS:4-30, 50, 60, 63, 71, 74, 80, 87, 94, 122 and 123--.

✓ On page 8, line 18 and 19, replace "SEQ. ID. NOS:4-31 and 124-133" with --SEQ ID NOS:4-30, 50, 60, 63, 71, 74, 80, 87, 94, 122 and 123--.

On page 8, line 29, replace "SEQ. ID. NOS:2, 38-157 and 168-175" with --SEQ ID NOS:2, 37-140, 142 and 144-147--.

✓ On page 62, lines 3 and 4, replace the column heading "SEQ. ID. No." with --SEQ ID NO:--.

✓ On page 62, lines 7 and 8, replace the column heading "SEQ. ID. NO." with --SEQ ID NO:--.

✓ On page 63, line 2, replace the column heading "SEQ. ID. NO." with --SEQ ID NO:--.

✓ On page 63, delete the entire row of line 10 (starting with "A032124" and ending with "10").

On page 63, (pre-amended) lines 3, 4, 5, 7, 8, 9, 11, 12, 15, 17, 18, 19, 21, 22, 24, 25, 26, 27, 29, 30, 32, 34, 35, 36, 38, 41 and 42, under the column heading --SEQ ID NO:--, replace the present numbering with --4-- through --30--, respectively.

✓ On page 64, lines 2, 13 and 22, replace the column heading "SEQ. ID. NO." with --SEQ ID NO:--.

* On page 64, lines 4, 5, 6, 7, 8, 10, 14, 15, 16, 17, 20, 23, 24, 25, 26, 28, 29, 30 and 31, under the column headings --SEQ ID NO:--, replace the present numbering with --31-- through --40--, --2-- and --41-- through --48--, respectively.

On page 65, line 2, replace the column heading "SEQ. ID. NO." with --SEQ ID NO:--.

✓ On page 65, lines 3, 4, 5, 6, 7, 8, 11, 12, 14, 16, 17, 18, 21, 22, 23, 24, 26, 27, 29, 30, 32, 34, 35, 36, 39 and 41, under the column heading --SEQ ID NO:--, replace the present numbering with --49-- through --74--, respectively.

✓ On page 66, line 1, replace the column heading "SEQ. ID. NO." with --SEQ ID NO:--.

✓ On page 66, delete the entire row of line 33 (starting with "A042401" and ending with "97").

* On page 66, (pre-amended) lines 2, 4, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 23, 24, 27, 28, 29, 30, 31, 34, 36, 37, 38, 39 and 43, under the column heading --SEQ ID NO:--, replace the present numbering with --75-- through --101--, respectively.

✓ On page 67, line 1, replace the column heading "SEQ. ID. NO." with --SEQ ID NO:--.

On page 67, lines 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 19, 21, 23, 24 and 26, under the column heading --SEQ ID NO:--, replace the present numbering with --102-- through --121--, respectively.

✓ On page 68, lines 1, 17 and 30, replace the column headings "SEQ. ID. NO." or "SEQ. ID. No." with --SEQ ID NO:--.

On page 68, lines 2, 3, 6, 8, 9, 10, 11, 12, 13, 14, 18, 23, 25, 26, 27, 31 and 32, under the column heading --SEQ ID NO:--, replace the present numbering with --50--, --60--, --122--, --63--, --123--, --71--, --74--, --80--, --87--, --94--, --124--, --125--, --123--, --126--, --127--, --128-- and --122--, respectively.

On page 69, line 1, replace the column heading "SeqID" with --GenBank--.

✓ On page 69, line 1, replace the column heading "SEQ. ID. NO." with
--SEQ ID NO:--.

✓ On page 69, delete the entire row of line 9 (starting with "159376" and ending
with "147").

✓ On page 69, delete the entire row of line 24 (starting with "143407" and ending
with "162").

✓ On page 69, delete the entire row of line 29 (starting with "37234" and ending
with "167").

On page 69, (pre-amended) lines 2, 3, 5, 6, 7, 8, 10, 11, 12, 12, 14, 15, 16, 17,
18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 30, 31, 32 and 33, under the column heading
--SEQ ID NO:--, replace the present numbering with --129-- through --139--, --135-- through
--138--, --140--, --138--, --139--, --88--, --83--, --141--, --142--, --83--, --143-- through --146--,
and --144--, respectively.

✓ On page 70, line 1, replace the column heading "SeqID" with
--GenBank--.

On page 70, line 1, replace the column heading "SEQ. ID. NO." with
--SEQ ID NO:--.

On page 70, lines 2-9, under the column heading --SEQ ID NO:--, replace the
present numbering with --145--, --146--, --142--, --147--, --145--, --146--, --47-- and --47--,
respectively.

Please insert the accompanying paper copy of the Sequence Listing, page
numbers 1 to 55, at the end of the application.

IN THE CLAIMS:

✓ In claim 6, line 3, replace "SEQ. ID. NO.:1" with --SEQ ID NO:1--.

✓ In claim 7, line 3, replace "SEQ. ID. NO:1" with --SEQ ID NO:1--.

✓ In claim 13, line 3, replace "SEQ. ID. NO:2" with --SEQ ID NO:12--.

✓ In claim 14, line 3, replace "SEQ. ID. NO:2" with --SEQ ID NO:12--.

✓ In claim 19, lines 2 and 3, replace "SEQ. ID. NOS:2, 38-157 and 168-175" with
--SEQ ID NOS:2, 37-140, 142 and 144-147--.

✓ In claim 20, line 2, replace "SEQ. ID. NOS:2, 38-157 and 168-175" with
--SEQ ID NOS:2, 37-140, 142 and 144-147--.

✓ In claim 22, lines 2 and 3, replace "SEQ. ID. NOS:2, 38-41, 139-152 and
171-173" with --SEQ ID NOS:2, 37-40, 122, 128-139 and 144-146--.

✓ In claim 24, lines 2 and 3, replace "SEQ. ID. NOS:42-49, 134-138, 153-157 and
168-170" with --SEQ ID NOS:41-48, 123-127, 135-138, 140 and 144-146--.

✓ In claim 26, lines 2 and 3, replace "SEQ. ID. NOS:2, 38-157 and 168-175" with
--SEQ ID NOS:2, 37-140, 142 and 144-147--.

✓ In claim 30, line 3, replace "SEQ. ID. NOS:2, 38-157 and 168-175" with
--SEQ ID NOS:2, 37-140, 142 and 144-147--.

✓ In claim 35, lines 2 and 3, replace "SEQ. ID. NO: 1 and SEQ. ID. NO:3" with
--SEQ ID NO:1 and SEQ ID NO:3--.

✓ In claim 36, line 3, replace "SEQ. ID. NO: 1 and SEQ. ID. NO:3" with
--SEQ ID NO:1 and SEQ ID NO:3--.

✓ In claim 39, line 3, replace "SEQ. ID. NO:1 and SEQ. ID. NO:3" with
--SEQ ID NO:1 and SEQ ID NO:3--.

✓ In claim 41, lines 2 and 3, replace "SEQ. ID. NOS:32-37" with
--SEQ ID NOS:31-36--.

✓ In claim 42, line 3, replace "SEQ. ID. NOS:32-37" with
--SEQ ID NOS:31-36--.

✓ In claim 45, line 3, replace "SEQ. ID. NOS:2, 38-157 and 168-175" with
--SEQ ID NOS:2, 37-140, 142 and 144-147--.

✓ In claim 46, line 3, replace "SEQ. ID. NOS:2, 38-157 and 168-175" with
--SEQ ID NOS:2, 37-140, 142 and 144-147--.

✓ In claim 48, line 3, replace "SEQ. ID. NOS:2, 38-41, 139-152 and
171-173" with --SEQ ID NOS:2, 37-40, 122, 128-139 and 144-146--.

✓ In claim 50, line 3, replace "SEQ. ID. NOS:42-49, 134-138, 153-157, 168-170"
with --SEQ ID NOS:41-48, 123-127, 135-138, 140 and 144-146--.

✓ In claim 54, lines 2 and 3, replace "SEQ. ID. NOS:158-164 and 176-178" with
--SEQ ID NOS:47, 83, 88, 138, 139, 141, 142, 145 and 146--.

✓ In claim 56, line 3, replace "SEQ. ID. NOS:158-164 and 176-178" with
--SEQ ID NOS:47, 83, 88, 138, 139, 141, 142, 145 and 146--.

✓ In claim 59, line 3, replace "SEQ. ID. NOS:158-164 and 176-178" with
--SEQ ID NOS:47, 83, 88, 138, 139, 141, 142, 145 and 146--.

✓ In claim 61, lines 2 and 3, replace "SEQ. ID. NOS:165-167 and 179" with
--SEQ ID NOS:47, 83 and 143--.

✓ In claim 63, line 3, replace "SEQ. ID. NOS:165-167 and 179" with
--SEQ ID NOS:47, 83 and 143--.

✓ In claim 66, line 3, replace "SEQ. ID. NOS:165-167 and 169" with
--SEQ ID NOS:47, 83 and 143--.

✓ In claim 68, lines 2 and 3, replace "SEQ. ID. NOS:4-31 and 124-133" with
--SEQ ID NOS:4-30, 50, 60, 63, 71, 74, 80, 87, 94, 122 and 123--.

✓ In claim 69, line 3, replace "SEQ. ID. NOS:4-31 and 124-133" with
--SEQ ID NOS:4-30, 50, 60, 63, 71, 74, 80, 87, 94, 122 and 123--.

✓ In claim 71, lines 2 and 3, replace "SEQ. ID. NOS:4-31 and 124-133" with
--SEQ ID NOS:4-30, 50, 60, 63, 71, 74, 80, 87, 94, 122 and 123--.

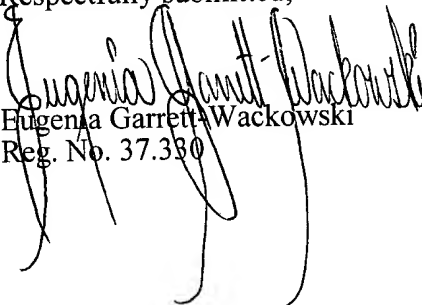
REMARKS

Applicants request entry of this amendment in adherence with 37 C.F.R. §§1.821 to 1.825. This amendment is accompanied by a floppy disk containing the above named sequences, SEQ ID NOS:1-147, in computer readable form, and a paper copy of the sequence information which has been printed from the floppy disk.

The information contained in the computer readable disk was prepared through the use of the software program "PatentIn" and is identical to that of the paper copy. This amendment contains no new matter.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 415-576-0200.

Respectfully submitted,


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